

Reference Case Projections by End-Use Sector and Region

Table D7. Delivered Energy Consumption in Japan by End-Use Sector and Fuel, 2003-2030
(Quadrillion Btu)

Sector/Fuel	2003	Projections					Average Annual Percent Change, 2003-2030
		2010	2015	2020	2025	2030	
Residential							
Oil	0.7	0.6	0.6	0.6	0.6	0.6	-0.8
Natural Gas	0.4	0.3	0.3	0.3	0.3	0.3	-0.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.9	1.0	1.0	1.0	1.0	1.0	0.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	-0.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total	2.0	2.0	2.0	2.0	2.0	2.0	-0.1
Commercial							
Oil	1.1	1.0	1.0	1.0	1.0	1.0	-0.4
Natural Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-0.2
Electricity	0.9	1.0	1.1	1.1	1.1	1.1	0.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Total	2.3	2.3	2.3	2.4	2.4	2.4	0.1
Industrial							
Oil	4.4	4.5	4.6	4.7	4.8	4.7	0.2
Natural Gas	0.5	0.5	0.6	0.6	0.6	0.6	1.0
Coal	2.2	2.1	2.2	2.2	2.2	2.2	0.0
Electricity	1.4	1.5	1.6	1.6	1.7	1.7	0.8
Heat	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.1	0.0	0.0	0.0	0.0	0.0	-3.2
Total	8.5	8.7	9.0	9.1	9.2	9.2	0.3
Transportation							
Oil	4.3	4.1	4.1	3.9	3.8	3.8	-0.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	4.3	4.2	4.2	4.0	3.9	3.9	-0.4
All End-Use Sectors							
Oil	10.6	10.2	10.3	10.2	10.2	10.1	-0.2
Natural Gas	1.1	1.1	1.1	1.1	1.2	1.2	0.3
Coal	2.2	2.1	2.2	2.2	2.2	2.2	0.0
Electricity	3.2	3.6	3.7	3.8	3.9	3.9	0.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	-0.1
Delivered Energy	17.2	17.2	17.5	17.4	17.5	17.5	0.1
Electricity-Related Losses	5.3	5.6	6.0	6.2	6.5	6.8	1.0
Total	22.4	22.7	23.4	23.6	24.0	24.3	0.3
Electric Power^a							
Oil	0.8	0.8	0.8	0.9	0.9	0.9	0.7
Natural Gas	2.1	2.3	2.5	2.6	2.7	2.8	1.1
Coal	1.9	2.0	2.0	1.9	1.8	1.8	-0.3
Nuclear	2.4	2.8	3.0	3.3	3.6	3.8	1.7
Renewables	1.3	1.3	1.4	1.4	1.4	1.5	0.5
Total	8.5	9.2	9.7	10.1	10.4	10.8	0.9
Total Energy Consumption							
Oil	11.3	11.0	11.1	11.0	11.1	11.1	-0.1
Natural Gas	3.2	3.4	3.6	3.7	3.8	4.0	0.8
Coal	4.1	4.1	4.2	4.1	4.0	4.0	-0.1
Nuclear	2.4	2.8	3.0	3.3	3.6	3.8	1.7
Renewables	1.4	1.4	1.5	1.5	1.5	1.6	0.4
Total	22.4	22.7	23.4	23.6	24.0	24.3	0.3

^aFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2003:** Derived from Energy Information Administration (EIA), *International Energy Annual 2003* (May-July 2005), web site www.eia.doe.gov/iea/. **Projections:** EIA, System for the Analysis of Global Energy Markets (2006).